

National Institute of Open Schooling
Secondary Course: Mathematics
Lesson 7: Arithmetic Progressions
Worksheet-7

1. Write any three Arithmetic Progressions by taking the common difference 5.
2. Find the three numbers in Arithmetic Progression whose sum is 15 and their product is 80.
3. The 6th term of an Arithmetic Progression is 12 and 8th term is 22. Find its second term and the 16th term.
4. Find out the number of multiples of 4 that lie between 10 and 250.
5. Find the sum of the first 20 terms of the following Arithmetic Progressions:
 - (i) 10, 15, 20, 25.....
 - (ii) - 4, 0, 4, 8
6. Find out the number of terms of the Arithmetic Progression 5, 9, 13, 17, that are needed to get the sum 629.
7. Find the sum of all natural numbers between 1 and 500 which are divisible by 5.
8. Find out the number of the three digit numbers that are exactly divisible by 6.
9. The angles of a triangle are in Arithmetic Progression. If the smallest angle is one-third of the largest angle, find the angles of the triangle.
10. If the 4th term of an Arithmetic Progression is 14 and its 12th term is 70, then find the 1st and 5th term.